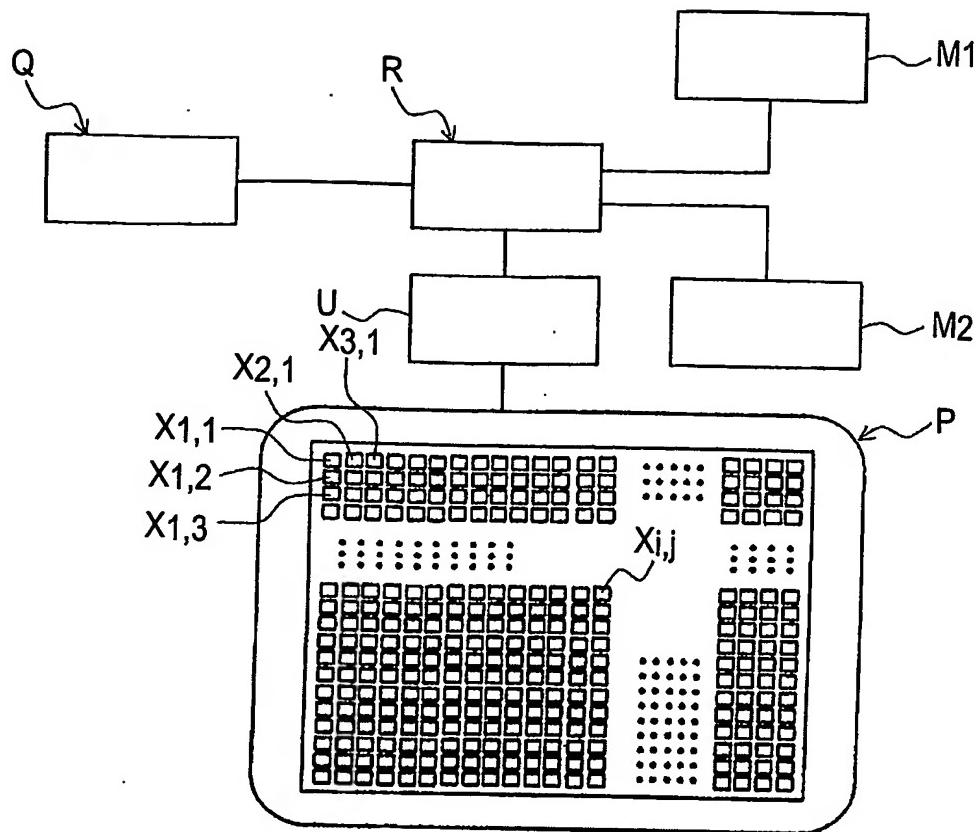
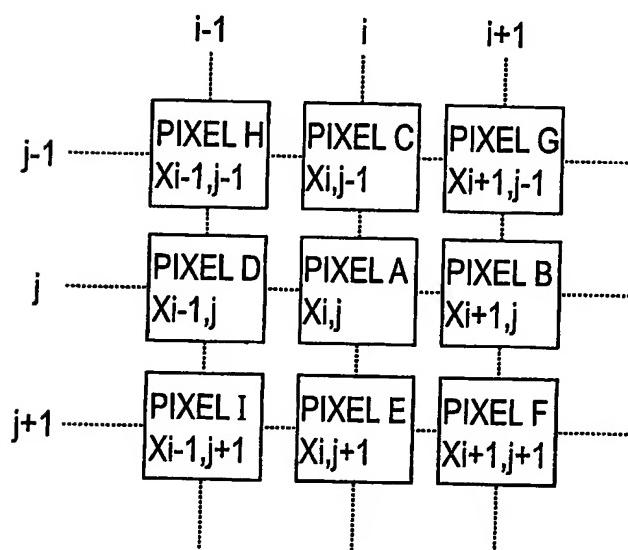


(a)



(b)

**FIG. 1**

	GRADATION SIGNAL	REFLECTANCE OF PIXEL A
GRADATION 1	$V_1 = -10V$	5%
GRADATION 2	$V_2 = 0.7V$	9%
GRADATION 3	$V_3 = 1.3V$	13%
GRADATION 4	$V_4 = 2V$	17%
.	.	.
.	.	.
.	.	.
.	.	.
GRADATION 14	$V_{14} = 8.7V$	57%
GRADATION 15	$V_{15} = 9.4V$	61%
GRADATION 16	$V_{16} = 10V$	65%

**FIG.2**

	A B C D E	GRADATION SIGNAL OF PIXEL A	REFLECTANCE OF PIXEL A
GRADATION 1	1 1 1 1 1	V1	5%
GRADATION 2	2 2 2 2 2	V2	9%
GRADATION 3	3 3 3 3 3	V3	13%
GRADATION 4	4 4 4 4 4	V4	17%
	.		.
	.		.
	.		.
	.		.
GRADATION 14	14 14 14 14 14	V14	57%
GRADATION 15	15 15 15 15 15	V15	61%
GRADATION 16	16 16 16 16 16	V16	65%

**FIG.3**

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(a)

## GRADATION 4 AT PIXEL A

	A	B	C	D	E	REFLECTANCE	GRADATION SIGNAL
K11	4	1	1	1	1	17%	V4
	4	1	1	1	2	17%	V4
	4	1	1	2	2	17%	V4
	4	1	2	2	2	17%	V4
	4	2	2	2	2	17%	V4
				⋮		⋮	⋮
	4	7	7	7	7	17%	V4
	4	7	7	7	8	17%	V4
	4	7	7	8	8	16.9%	V4
	4	7	8	8	8	16.9%	V4
K12	4	8	8	8	8	16.8%	V4
				⋮		⋮	⋮
	4	15	15	15	15	15.2%	V4'
	4	15	15	15	16	15.2%	V4'
	4	15	15	16	16	15.1%	V4'
	4	15	16	16	16	15%	V4'
	4	16	16	16	16	15%	V4'
				⋮		⋮	⋮

(b)

## GRADATION 8 AT PIXEL A

	A	B	C	D	E	REFLECTANCE	GRADATION SIGNAL
K21	8	1	1	1	1	34.2%	V8'
	8	1	1	1	2	34.1%	V8'
	8	1	1	2	2	34.0%	V8'
	8	1	2	2	2	34.0%	V8'
	8	2	2	2	2	33.8%	V8'
				⋮		⋮	⋮
	8	7	7	7	7	33%	V8
	8	7	7	7	8	33%	V8
	8	7	7	8	8	33%	V8
	8	7	8	8	8	33%	V8
K22	8	8	8	8	8	33%	V8
				⋮		⋮	⋮
	8	15	15	15	15	31.4%	V8"
	8	15	15	15	16	31.5%	V8"
	8	15	15	16	16	31.5%	V8"
	8	15	16	16	16	31.6%	V8"
	8	16	16	16	16	31.6%	V8"
				⋮		⋮	⋮

**FIG.4**

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(a)

## GRADATION 12 AT PIXEL A

A	B	C	D	E	REFLECTANCE	GRADATION SIGNAL	
K31	12	1	1	1	1	50.6%	V12'
	12	1	1	1	2	50.5%	V12'
	12	1	1	2	2	50.5%	V12'
	12	1	2	2	2	50.4%	V12'
	12	2	2	2	2	50.4%	V12'
K32	12	7	7	7	7	49%	V12
	12	7	7	7	8	49%	V12
	12	7	7	8	8	49%	V12
	12	7	8	8	8	49%	V12
	12	8	8	8	8	49%	V12
K32	12	15	15	15	15	48.9%	V12
	12	15	15	15	16	48.8%	V12
	12	15	15	16	16	48.8%	V12
	12	15	16	16	16	48.8%	V12
	12	16	16	16	16	48.7%	V12

(b)

## GRADATION 16 AT PIXEL A

A	B	C	D	E	REFLECTANCE	GRADATION SIGNAL	
K41	16	1	1	1	1	67.0%	V16'
	16	1	1	1	2	67.0%	V16'
	16	1	1	2	2	67.0%	V16'
	16	1	2	2	2	66.8%	V16'
	16	2	2	2	2	66.8%	V16'
K42	16	7	7	7	7	65.8%	V16
	16	7	7	7	8	65.7%	V16
	16	7	7	8	8	65.7%	V16
	16	7	8	8	8	65.6%	V16
	16	8	8	8	8	65.6%	V16
K42	16	15	15	15	15	65%	V16
	16	15	15	15	16	65%	V16
	16	15	15	16	16	65%	V16
	16	15	16	16	16	65%	V16
	16	16	16	16	16	65%	V16

FIG.5

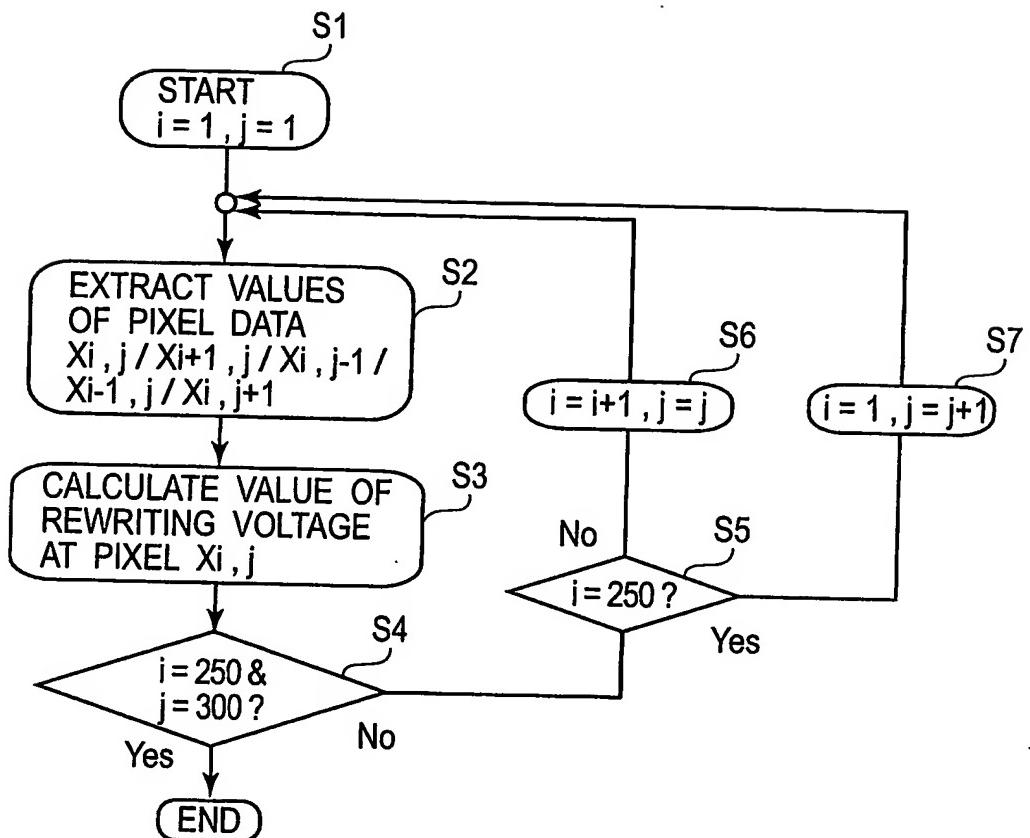


FIG.6

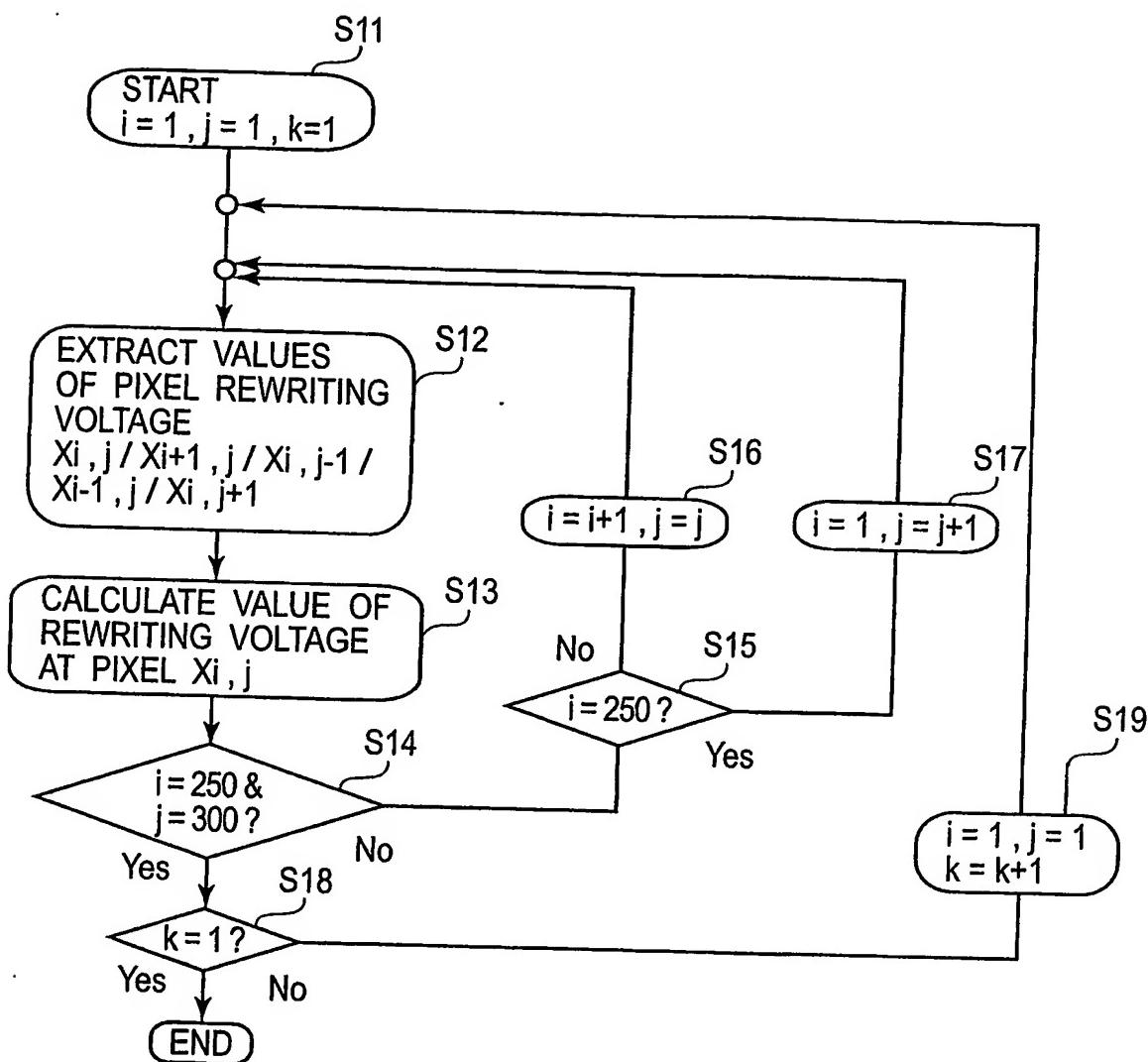
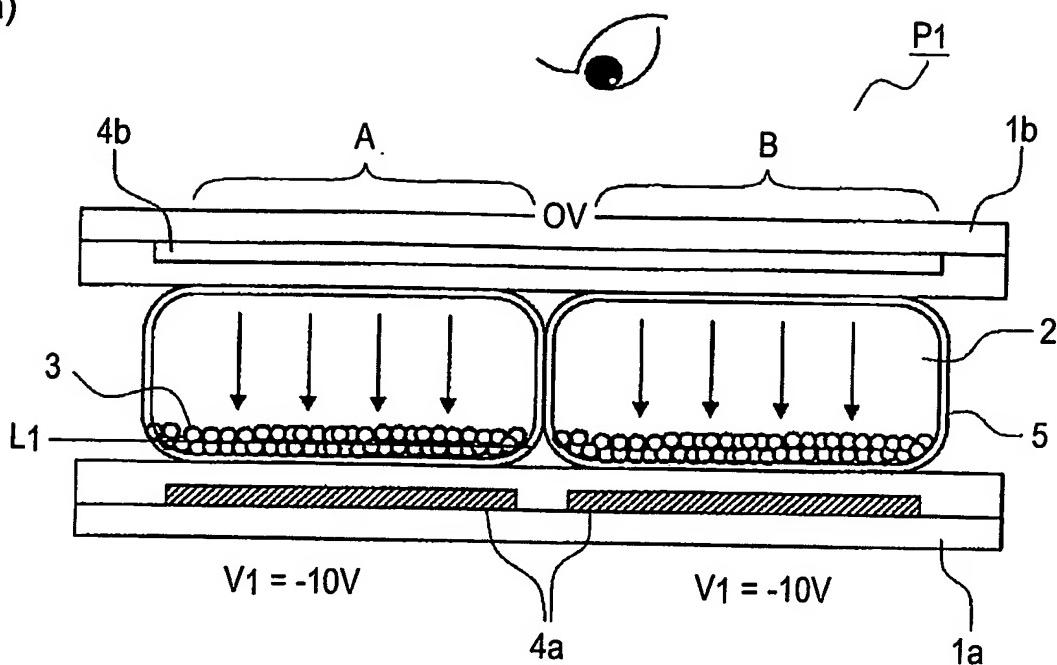


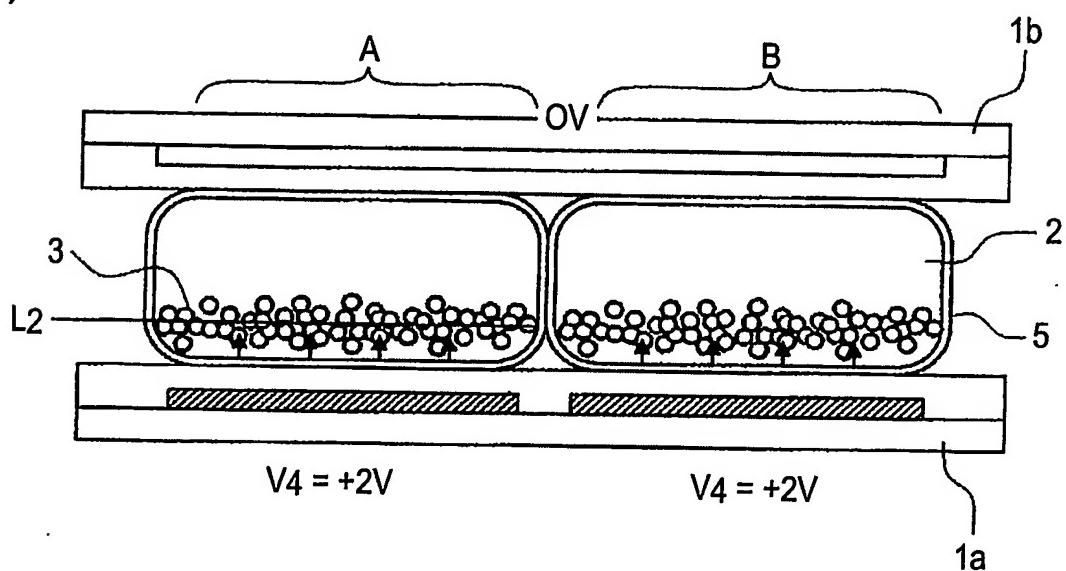
FIG. 7

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(a)

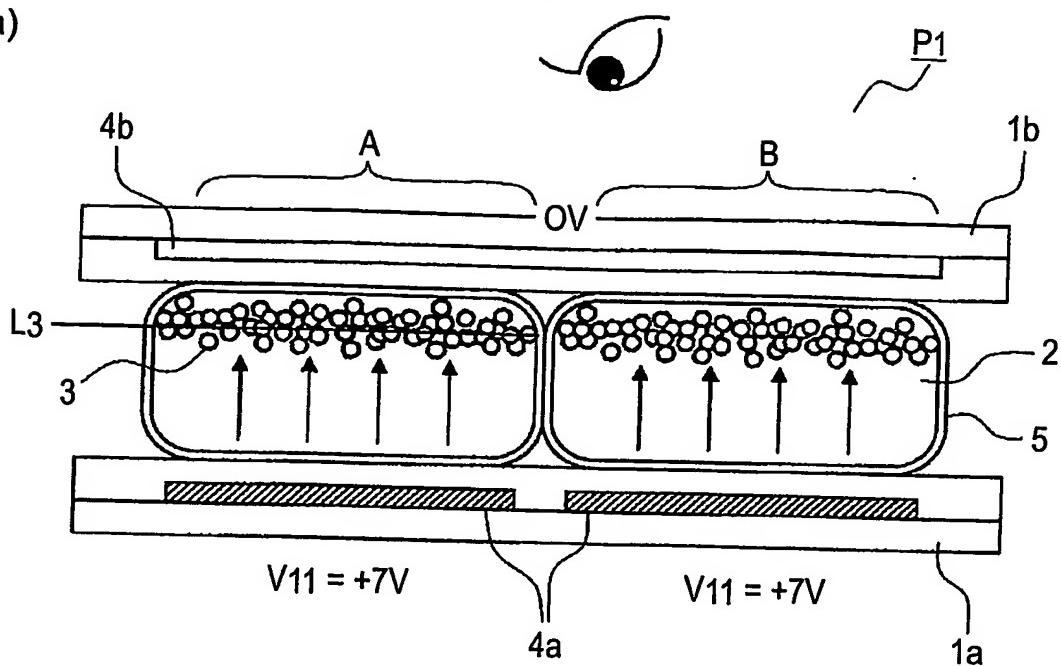


(b)

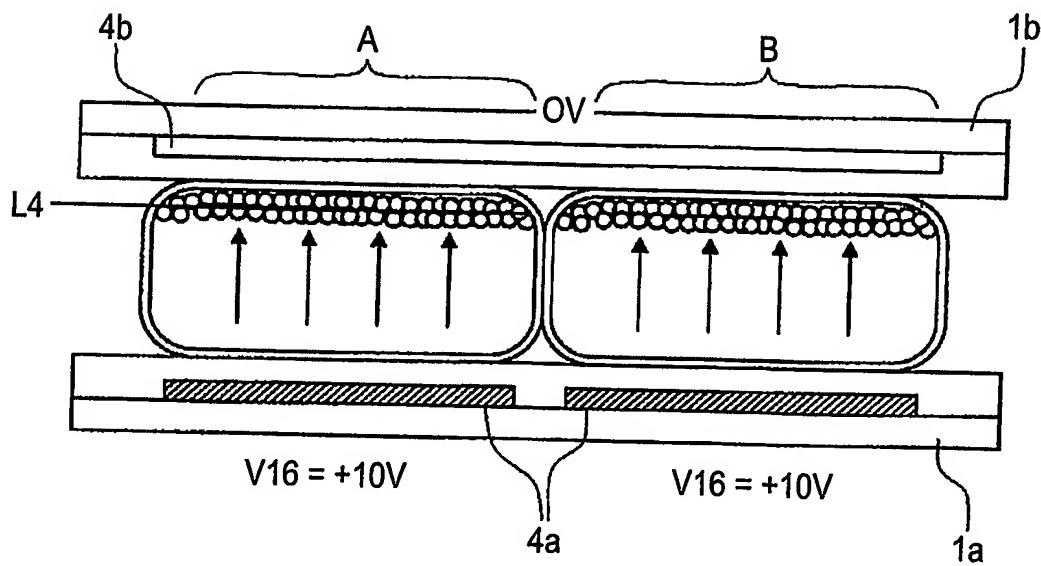
**FIG.8**

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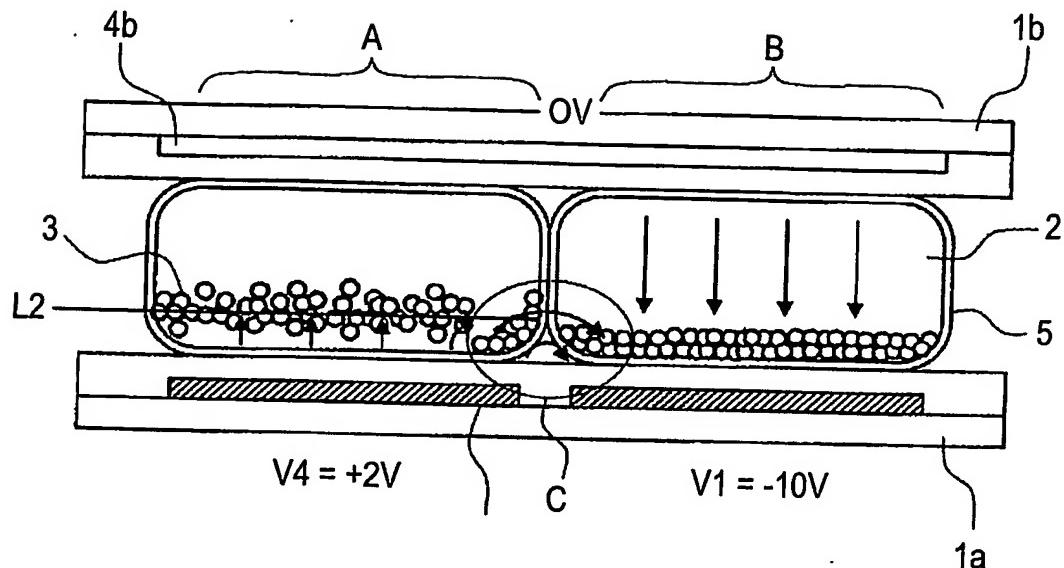
(a)



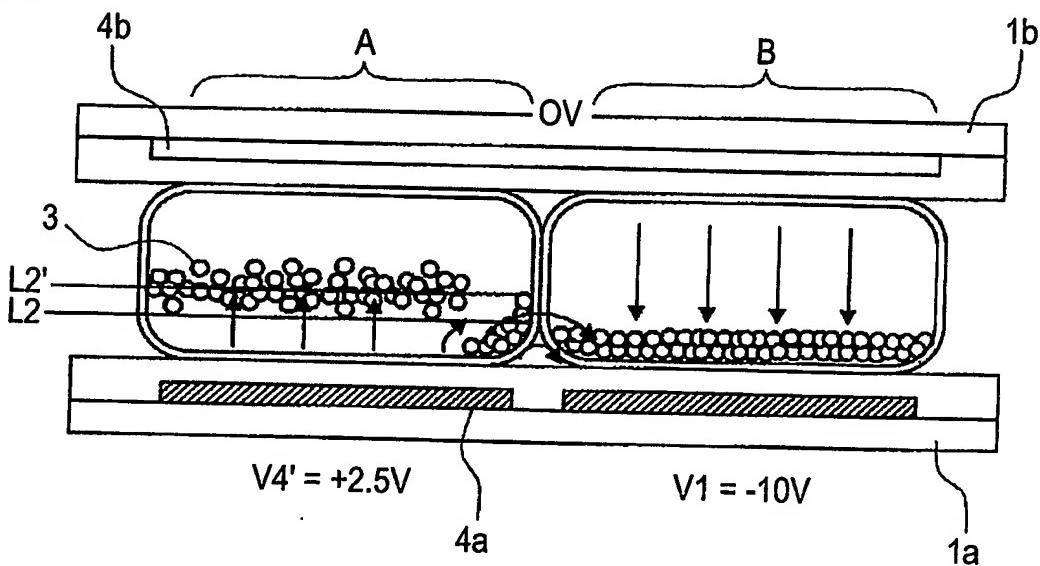
(b)

**FIG. 9**

(a)

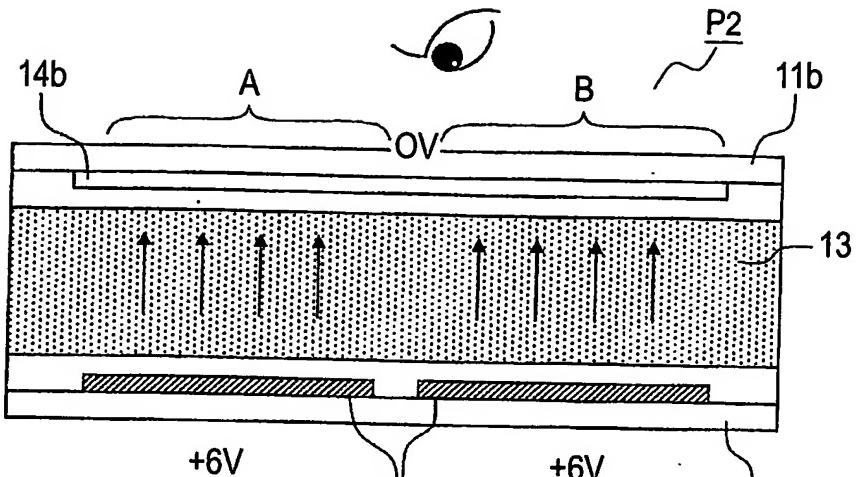


(b)

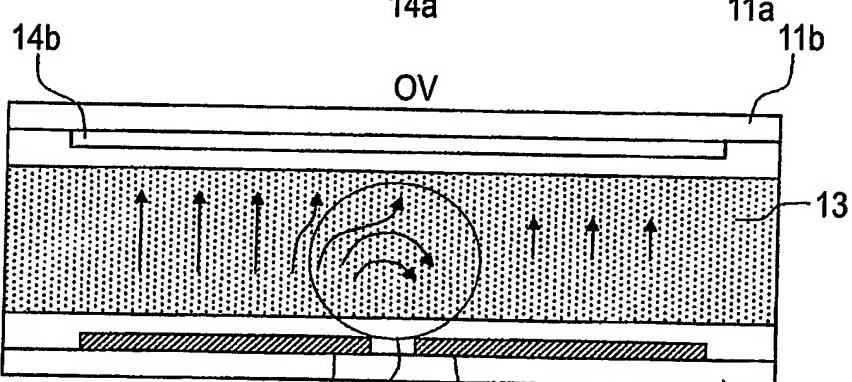
**FIG. 10**

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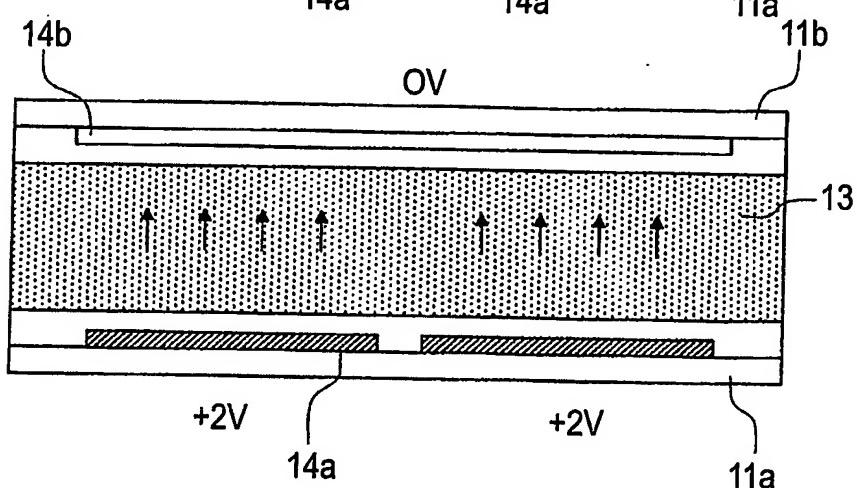
(a)



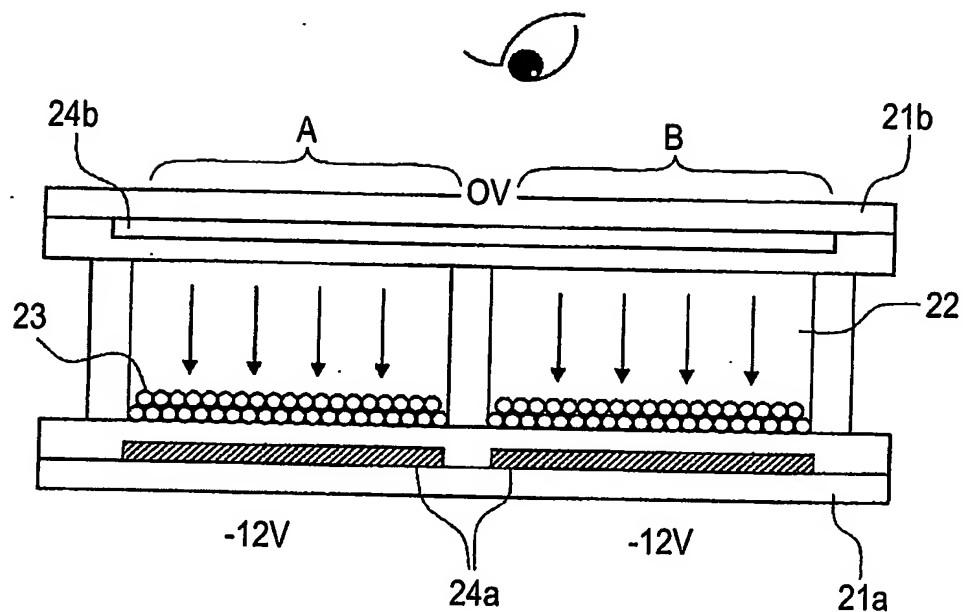
(b)



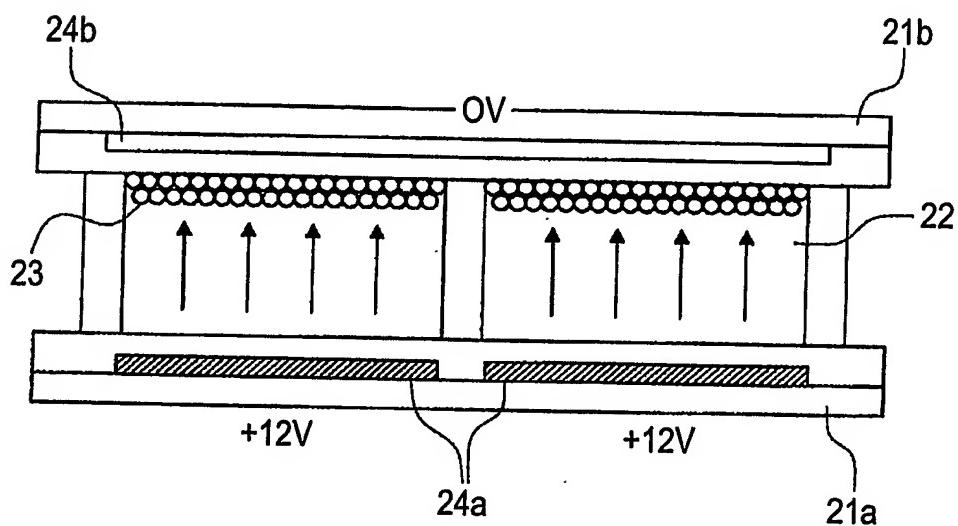
(c)

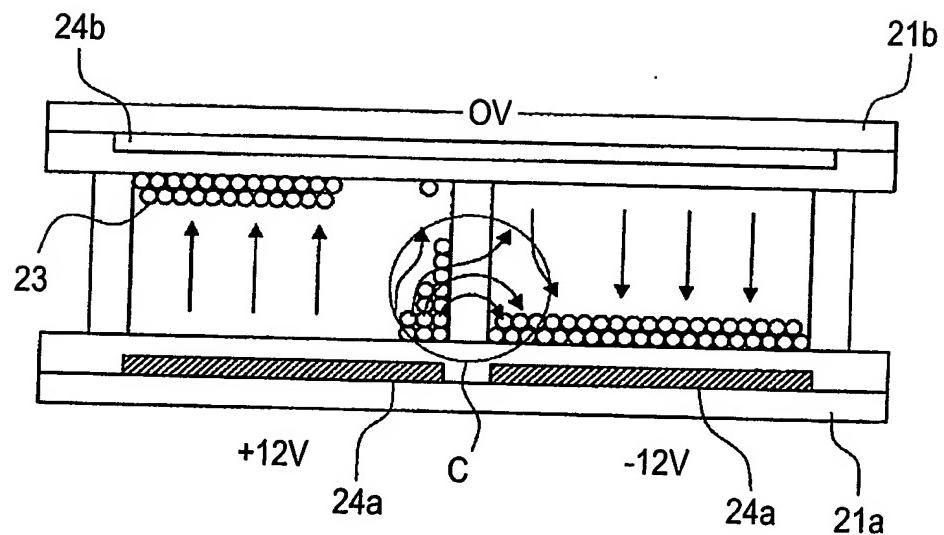
**FIG. 11**

(a)



(b)

**FIG. 12**

**FIG. 13**